PATENT COOPERATION TREATY

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

TO: CARL FREUDENBERG KG NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY Patents & Trademarks (PCT Rule 71.1) 69465 Weinheim GERMANY Date of mailing 07/06/2006 (day/month/year) IMPORTANT NOTIFICATION Applicant's or agent's file reference 03PA0145 PCT International application no. International filing date Priority date (day/month/year) PCT/FP2005/000621 (day/month/year) 17/02/2004 22/01/2005 Applicant

- The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the
 international preliminary report on patentability and its annexes, if any, established on the international application.
- A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

CARL FREUDENBERG KG et al.

From the

The applicant must enter the national phase before each elected Office by performing certain acts (filing translation and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39 (1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further detail on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed invention is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, darity and support for the claims.

Name and mailing address of the IPEA	Authorized officer		
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Form PCT/IPEA/416 (January 2004)

INTERNATIONAL PATENT COOPERATION TREATY PCT

PRELIMINARY INTERNATIONAL PATENTABILITY EXAMINATION REPORT

(Chapter II of the International Patent Cooperation Treaty)

	o. of Applicant or A	ttorney	FURTHER PROCEDURE See Form PCT/IPEA/416					
Interna	tional File Numbe P2005/000621	r	Intern. Appl. Date (mort 01/22/2005	th, day, year)	Priority Date (month, da 02/17/2004	ay, year)		
International Patent Classification (IPC) or National Classification and IPC								
INV. H01B7/08 H01B13/012 B60R 16/02								
Applicant:								
CARL FREUDENBERG KG et al.								
co	ils report is the preliminary international examination report, which was prepared by the authority mmissioned with the preliminary international examination in accordance with Section 35 and is warded to the applicant in accordance with Section 36.							
2. Th	This REPORT comprises a total of 5 pages, including this cover sheet.							
3. Ac	Additionally the report includes ATTACHMENTS; these attachments comprise							
a			and the international off					
	pages with the specification, claims and/or drawings that were modified and on which this report is based, and/or pages with corrections made by this authority (see Rule 70.16 and Section 607 of the Administrative Guidelines).							
	and i	n the additi	onal field in the opinion o	of the authority cor	sons stated in Field No. 1 Itain a modification that e originally submitted form	xceeds		
b	. (sent only	to the inter	national office) a total of	(please indicate ty	pe and quantity of the ele	ectronic		
					corresponding tables, on the sequence protocol (
			ministrative Guidelines).		ille sequence protocor (566		
4. Th	is report contains	information	on the following issues:					
	Field No. I	Basis of th	ne Report					
	Field No. II	Priority						
Field No. III No evaluation has been prepared on novelty, inventive creativity an applicability.					ve creativity and commer	cial		
	Field No. IV	Lacking u	niformity of invention					
	Field No. V	Justified of step and i observation	ndustrial applicability; do	e with Section 35() cuments and decl	regarding novelty, inve arations to support this	ntive		
	Field No. VI	Certain do	cuments as indicated					
	Field No. VII	Certain de	eficiencies of the internat	ional application				
	Field No. VIII	Certain re	marks regarding the inte	rnational application	on			
Date Ap 10/21/	plication was submitte	d		Date on which Report 07/06/2006	t was prepared			
Name a	nd Mailing Address of	Authority Com	missioned with International	Authorized Officer				
Examina		nt Office – I	P.B. 5818 Patentlaan 2	Salm, R.				
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Form PCT/IPEA/409 (Cover Page) (April 2005)

Field N	lo. I Ba	sis of the Report				
1.	 Regarding the language, the report is based on the international application in the language it was submitted, unless stated otherwise here. 					
	wh	The report is based on a translation from the original language into the following language, which is the language of the translation that was submitted for the following purpose: international search (according to Rules 12.3 and 23.1 b)) publication of the international application (according to Rule 12.4) preliminary international examination (according to Rules 55.2 and/or 55.3)				
Regarding the components* of the international application, the report is based on (repla pages, which were presented to the application office upon request in accordance with Sc considered as having been "originally submitted" within the framework of this report and hattached):						
	Description, Pages					
	1-8	in the originally submitted version				
	Claims, No).				
	2-10 1	in the originally submitted version received on 12/16/2005 with the letter dated 12/16/2005				
	Drawings, Pages					
	1/1	in the originally submitted version				
	in a seq	uence protocol and/or possible corresponding tables – see additional field relating to the protocol				
3.	. Due to modifications, the following documents have been eliminated. specification: page claims: no. drawings: page/fig. sequence protocol (detailed information): possible tables belonging to the sequence protocol (detailed information):					
4.	□ This report has been prepared without consideration of (some) modifications attached to this report and listed in the following since for the reasons stated in the additional field in the opinion of the authority they exceed the disclosure content of the originally submitted version (Rule 70.2 c)). □ specification: page □ claims: no. □ drawings: page/fig. □ sequence protocol (detailed information): □ possible tables belonging to the sequence protocol (detailed information):					
	* If Item 4 a	applies, some or all of these pages can be provided with the remark "replaced".				

PRELIMINARY INTERNATIONAL PATENTABILITY EXAMINATION REPORT

International File Number: PCT/EP2005/000621

Field No. V Justified observation in accordance with Section 35 (2) regarding novelty, inventive creativity and commercial applicability; documents and declarations to support this observation.

Observation

2. Documents and Declarations (Rule 70.7):

see attachment

Field No. VIII Certain remarks regarding the international application

The following should be noted regarding the clarity of the claims, the description and the drawings or regarding the question of whether the claims are fully supported by the description:

see attachment

Regarding Item V

Justified observation regarding novelty, inventive creativity and industrial applicability; documents and declarations to support this observation.

 The applicant cited the following document (D3) in the description. The numbering also applies to the remainder of the proceedings:

D3: DE 196 28 850 A (YAZAKI CORP.) January 23, 1997

INDEPENDENT CLAIM 1

Document D3 is considered the closest state of the art compared to the object of claim 1. It discloses (the references in brackets relate to this document):

A three-dimensional flat cable made of a laminate, which comprises a conductor layer (12) that is bonded between a cover layer (B) and a support layer (A), wherein at least one adhesive layer (C) is provided to connect the layers.

The object of claim 1 therefore differs from the known flat cables in that the flat cable is fixed in its three-dimensional shape following or during the forming of the laminate while applying heat, radiation and pressure by cooling the adhesive layer to below the glass temperature T_0 or by reactive hardening of the adhesive layer.

The object of claim 1 is therefore novel (Article 33(2) PCT).

The task to be achieved with the present invention can therefore be viewed as creating a three-dimensional flat cable with a few steps.

While the solution proposed for this task in claim 1 of the present application in its present form (see item VIII) is not clear, it is based on inventive step for the

International File Number: PCT/EP2005/000621

following reasons (Article 33(3) PCT) because no indications exists in the related art regarding this solution).

3 DEPENDENT CLAIMS 2-10

Claims 2-10 are dependent on claim 1 and therefore likewise meet the PCT requirements in terms of novelty and inventive step.

4 INDUSTRIAL APPLICABILITY

The application relates to a method for producing a flat cable for vehicles, so that the requirements of Article 33(4) relating to industrial applicability are met.

Regarding Item VIII

As will be demonstrated below, some of the characteristics in the device-related claim 1 relate to a method for producing a device and not to the definition of the device based on its characteristic features. The intended limitations, contradictory to the requirements of PCT Article 6, are therefore not clearly disclosed in the claim.

It is clear from the description on page 2, line 24 that the flat cable is formed by applying heat and pressure (not and/or).

New Claim 1

1. A three-dimensional flat cable made of a laminate, which comprises a conductor layer that is bonded between a cover layer and a support layer, at least one adhesive layer being is provided to connect the layers, characterized in that the flat cable following or during the forming of the laminate is fixed in its three-dimensional shape by applying heat, radiation and/or pressure by cooling the adhesive layer to below the glass temperature T_g or by reactive hardening of the adhesive layer.

AMENDED PAGE